

# CHAPTER 1



## AVIATION BOATSWAIN'S MATE (AB)

NAVPERS 18068-1D

**CH-63**

Updated: July 2015

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NAVY ENLISTED OCCUPATIONAL STANDARD

FOR

AVIATION BOATSWAIN'S MATE (FUELS) (ABF)



SCOPE OF RATING

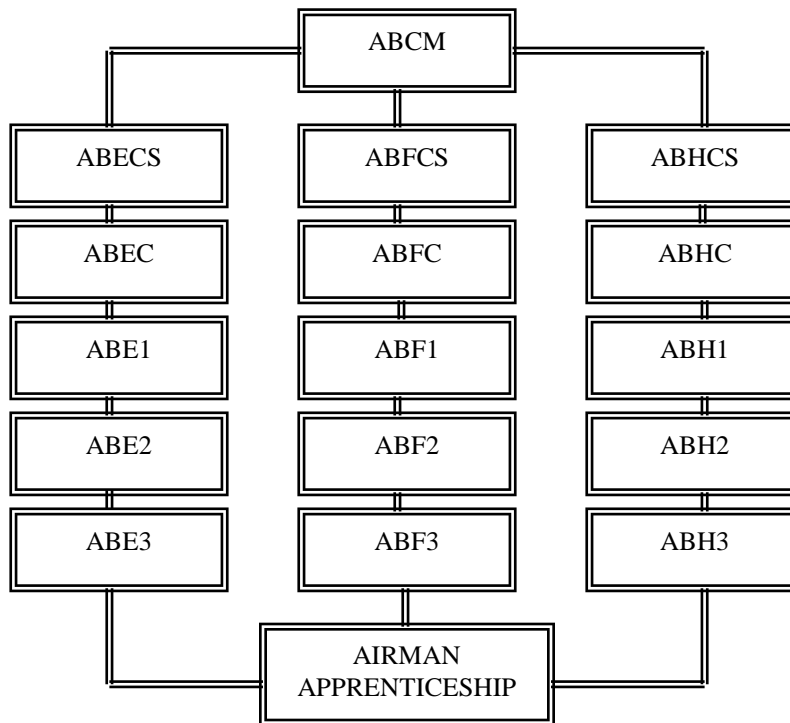
Aviation Boatswain's Mates (AB) operate, maintain, and perform organizational maintenance on catapults, arresting gear, barricades, and associated flight deck launching and recovery equipment; operate and service aircraft ground-handling equipment and machinery; operate and service aircraft crash, firefighting, and rescue equipment; handle aircraft afloat and ashore; operate, maintain, and repair aviation fueling, defueling, lubricating oil, and inert gas systems; perform crash rescue, firefighting, crash removal, and damage control duties.

Aviation Boatswain's Mates, Fuels (ABF) operate, maintain, and perform organizational maintenance on aviation fueling and lubricating oil systems in CVNs, LHAs, LHDs, and LPDs, including aviation fuel and lubricating oil service stations and pump rooms, piping, valves, pumps, tanks, and portable equipment related to the fuel system; operate, maintain, and repair valves and piping of purging and protective systems within the Air Department's spaces aboard ship; supervise the operation and servicing of fuel farms and equipment associated with the fueling and defueling of aircraft ashore and afloat; operate and service motorized fueling equipment; maintain fuel quality surveillance and control in aviation fuel systems ashore and afloat; train, direct, and supervise firefighting crews, fire rescue teams, and damage control parties in assigned fuel and lubricating oil spaces; observe and enforce fuel handling safety precautions.

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This Occupational Standard is to be incorporated in Volume I, Part B, of the Manual of Navy Enlisted Manpower and Personnel Classifications and Occupational Standards (NAVPERS 18068F) in Chapter 1.

## GENERAL INFORMATION CAREER PATTERN



Normal path of advancement to Chief Warrant Officer and Limited Duty Officer categories can be found in OPNAVINST 1420.1.

For rating entry requirements, refer to MILPERSMAN 1306-618.

### **SAFETY**

**The observance of Operational Risk Management (ORM) and proper safety precautions in all areas is an integral part of each billet and the responsibility of every Sailor; therefore, it is a universal requirement for all ratings.**

**Job Title****Aviation Fuels Below Deck Operations Technician****Job Code****001030****Job Family**

Transportation and Material Moving

**NOC**

TBD

**Short Title (30 Characters)**

AVFUELS BLWDECK OPS TECH

**Short Title (14 Characters)**

FUEL BDCK TECH

**Pay Plan**

Enlisted

**Career Field**

ABF

**Other Relationships and Rules**

May have NEC 7022 assigned

**Job Description**

Aviation Fuels Below Deck Operations Technicians ensure, supervise, and manage the safe receipt, transfer, purification and issue of JP5 aviation fuel to various locations throughout the ship; take samples; sound tanks; operate auxiliary, service, transfer, and stripping systems to perform various functions; perform preventive and corrective maintenance on equipment; and maintain the material condition of assigned spaces.

**DoD Relationship****Group Title**

Aircraft Launch Equipment

**DoD Code**

160400

**O\*NET Relationship****Occupation Title**

Automotive and Watercraft

Service Attendants

**SOC Code**

53-6031.00

**Job Family**

Transportation and Material

Moving

**Skills***Operation Monitoring**Equipment Selection**Troubleshooting**Mathematics**Quality Control Analysis**Equipment Maintenance**Judgment and Decision Making**Management of Personnel Resources**Complex Problem Solving**Critical Thinking***Abilities***Problem Sensitivity**Hearing Sensitivity**Depth Perception**Memorization**Multi-limb Coordination**Number Facility**Written Comprehension**Control Precision**Mathematical Reasoning**Reaction Time***FLIGHT/HANGAR DECK EQUIPMENT MAINTENANCE****Paygrade**

E5

**Task Type**

CORE

**Task Statements**

Coordinate fuel system equipment repairs

**FLIGHT/HANGAR DECK OPERATIONS****Paygrade**

E4

**Task Type**

CORE

**Task Statements**

Defuel aircrafts

E5

CORE

Monitor emergency aircraft defueling operations

E4

CORE

Perform fueling operations

E6

CORE

Supervise equipment repair procedures

**JP-5 BELOW DECKS SYSTEM EQUIPMENT MAINTENANCE****Paygrade**

E4

**Task Type**

CORE

**Task Statements**

Detect below deck material deficiencies

E4

CORE

Detect pump room equipment deficiencies

E4

CORE

Maintain material conditions of the JP5 filter separator

E5

CORE

Supervise below deck corrective maintenance procedures

### **JP-5 BELOW DECKS SYSTEM OPERATIONS**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E4	CORE	Align Underway Replenishment (UNREP) stations
E7	CORE	Approve fuel onload charts
E7	CORE	Approve tank sequences
E5	CORE	Conduct below deck space inspections
E6	CORE	Coordinate Underway Replenishment (UNREP) stations
E7	CORE	Manage below deck fueling operations
E7	NON-CORE	Manage below deck manning requirements
E6	CORE	Manage below deck personnel routines
E7	CORE	Manage below deck training programs
E7	CORE	Manage fuel system liquid loads
E6	CORE	Monitor ballasting and de-ballasting system operations
E6	CORE	Monitor below deck fire emergency procedures
E5	CORE	Monitor below deck fuel systems auxiliary operations
E4	CORE	Monitor catapult lube oil system operations
E5	CORE	Monitor fuel transfer system operations
E5	CORE	Monitor JP5 service system operations
E5	CORE	Monitor JP5 stripping system operations
E4	CORE	Perform auxiliary system operations
E4	CORE	Perform ballasting and de-ballasting system operations
E4	CORE	Perform below deck system operations
E4	CORE	Perform catapult lube oil system operations
E4	CORE	Perform emergency filter room procedures
E4	CORE	Perform emergency pump room procedures
E4	CORE	Perform filter room operations
E4	CORE	Perform fuel transfer system operations
E4	CORE	Perform JP5 service system operations
E4	CORE	Perform JP5 stripping system operations
E4	CORE	Sound JP5 fuel tanks
E7	CORE	Verify offloading procedures
E7	CORE	Verify sounding report accuracy

### **QUALITY SURVEILLANCE**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E4	CORE	Conduct quality surveillance tests
E4	CORE	Determine fuel characteristics
E5	CORE	Monitor aviation fuel quality surveillance procedures

### TECHNICAL ADMINISTRATION

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E5	CORE	Input Organizational Maintenance Management System (OMMS) job data
E6	CORE	Maintain aviation fuels accountability records
E7	CORE	Manage Ship Operation Management System (SOMS)
E5	CORE	Perform fuel system administrative functions
E7	CORE	Verify Current Ships Maintenance Plans (CSMP)
E6	CORE	Verify Organizational Maintenance Management System (OMMS) jobs

**Job Title****Aviation Fuels Flight Deck Operations Technician****Job Code****001085****Job Family**

Installation, Maintenance, and Repair

**NOC**

TBD

**Short Title (30 Characters)**

AVFUELS FLTDECK OPS TECH

**Short Title (14 Characters)**

FUEL FLT DECK

**Pay Plan**

Enlisted

**Career Field**

ABF

**Other Relationships and Rules**

None

**Job Description**

Aviation Fuels Flight Deck Operations Technicians ensure, supervise, and manage the safe receipt, transfer and issue of JP5 aviation fuel to various locations throughout the ship; take samples; perform quality surveillance of fuels; flush fuel stations; sound tanks; align flight deck fueling stations; fuel and defuel aircraft; perform preventive and corrective maintenance on equipment; and maintain the material condition of assigned spaces.

**DoD Relationship****Group Title**

Aircraft Launch Equipment

**DoD Code**

160400

**O\*NET Relationship****Occupation Title**Maintenance and Repair Workers,  
General**SOC Code**

49-9071.00

**Job Family**Installation, Maintenance,  
and Repair**Skills***Operation Monitoring**Equipment Selection**Operation and Control**Troubleshooting**Instructing**Equipment Maintenance**Management of Personnel Resources**Quality Control Analysis**Judgment and Decision Making**Repairing***Abilities***Depth Perception**Problem Sensitivity**Memorization**Control Precision**Information Ordering**Peripheral Vision**Reaction Time**Written Expression**Hearing Sensitivity**Inductive Reasoning***FLIGHT/HANGAR DECK EQUIPMENT MAINTENANCE****Paygrade**

E5

**Task Type**

CORE

**Task Statements**

Coordinate fuel system equipment repairs

E4

CORE

Perform aviation fuels flight deck equipment planned maintenance

E4

CORE

Perform flight deck equipment repairs

E5

CORE

Supervise flight deck corrective maintenance procedures

**FLIGHT/HANGAR DECK OPERATIONS****Paygrade**

E5

**Task Type**

CORE

**Task Statements**

Conduct inspections of flight deck stations

E4

CORE

Defuel aircrafts

E4

CORE

Detect fueling stations equipment deficiencies

E4

CORE

Detect fueling stations material deficiencies

E4

CORE

Fuel aircrafts

E7

CORE

Manage flight deck fueling operations

E7

CORE

Manage flight deck manning requirements

E6

CORE

Manage flight deck personnel routines

E4

CORE

Monitor aircraft fueling stations alignments

E5

CORE

Monitor emergency aircraft defueling operations

E5

CORE

Monitor flight deck fuel systems auxiliary operations

E4

CORE

Obtain visual sample from fueling stations



E4	CORE	Perform flight deck hot refueling operations
E4	CORE	Perform flight deck station operations
E4	CORE	Perform fuel station operations
E4	CORE	Perform fueling operations
E5	CORE	Supervise aircraft defueling operations
E7	CORE	Supervise aircraft emergency defueling operation
E6	CORE	Supervise aircraft to aircraft fuel transfers
E6	CORE	Supervise equipment repair procedures
E5	CORE	Supervise refueling crews operations

#### **JP-5 BELOW DECKS SYSTEM OPERATIONS**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E4	CORE	Align Underway Replenishment (UNREP) stations
E6	CORE	Coordinate Underway Replenishment (UNREP) stations
E6	CORE	Monitor below deck fire emergency procedures
E5	CORE	Monitor below deck fuel systems auxiliary operations
E5	CORE	Monitor JP5 service system operations
E4	CORE	Obtain visual sample from sponson connection
E4	CORE	Perform auxiliary system operations
E4	CORE	Perform fuel transfer system operations
E4	CORE	Perform JP5 service system operations

#### **QUALITY SURVEILLANCE**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E4	CORE	Conduct quality surveillance tests
E4	CORE	Determine fuel characteristics
E6	CORE	Manage fuels Quality Assurance (QA) personnel routine
E5	CORE	Monitor aviation fuel quality surveillance procedures

#### **TECHNICAL ADMINISTRATION**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E5	CORE	Input Organizational Maintenance Management System (OMMS) job data
E6	CORE	Maintain aviation fuels accountability records
E7	CORE	Manage Ship Operation Management System (SOMS)
E5	CORE	Perform fuel system administrative functions
E7	CORE	Verify Current Ships Maintenance Plans (CSMP)
E6	CORE	Verify Organizational Maintenance Management System (OMMS) jobs

**Job Title****Aviation Fuels Shore Base Operations Technician****Job Code****001140****Job Family**

Installation, Maintenance, and Repair

**NOC**

TBD

**Short Title (30 Characters)**

AVFUELS ASHORE OPS TECH

**Short Title (14 Characters)**

FUEL SHORE TEC

**Pay Plan**

Enlisted

**Career Field**

ABF

**Other Relationships and Rules**

None

**Job Description**

Aviation Fuels Shore Base Operations Technicians execute, supervise, and manage the safe receipt, transfer and issue of JP5 aviation fuel to assigned and transient aircraft, as well as support equipment; take samples, sound tanks; coordinate refueling points; perform refuel and defuel operations; provide fuel for Jet Test facilities; conduct Quality Assurance (QA) checks on fuel, aligning service, operating transfer, and stripping systems to perform various functions; perform preventive and corrective maintenance on equipment; and maintain the material condition of assigned spaces.

**DoD Relationship****O\*NET Relationship****Group Title**

Aircraft Launch Equipment

**DoD Code**

160400

**Occupation Title**Maintenance and Repair Workers,  
General**SOC Code**

49-9071.00

**Job Family**Installation, Maintenance,  
and Repair**Skills***Operation Monitoring**Troubleshooting**Equipment Selection**Operation and Control**Instructing**Equipment Maintenance**Quality Control Analysis**Judgment and Decision Making**Mathematics**Science***Abilities***Control Precision**Depth Perception**Multi-limb Coordination**Problem Sensitivity**Number Facility**Category Flexibility**Hearing Sensitivity**Manual Dexterity**Mathematical Reasoning**Memorization***FLIGHT/HANGAR DECK EQUIPMENT MAINTENANCE****Paygrade**

E5

**Task Type**

CORE

**Task Statements**

Coordinate fuel system equipment repairs

**FLIGHT/HANGAR DECK OPERATIONS****Paygrade**

E4

**Task Type**

CORE

**Task Statements**

Defuel aircrafts

E4

CORE

Detect fueling stations material deficiencies

E4

CORE

Fuel aircrafts

E4

CORE

Obtain visual sample from fueling stations

E4

CORE

Perform fuel station operations

E4

CORE

Perform fueling operations

E5

CORE

Supervise aircraft defueling operations

E7

CORE

Supervise aircraft emergency defueling operation

E6

CORE

Supervise aircraft to aircraft fuel transfers

E5

CORE

Supervise refueling crews operations

### **JP-5 BELOW DECKS SYSTEM OPERATIONS**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E5	CORE	Monitor JP5 stripping system operations
E4	CORE	Perform fuel transfer system operations
E4	CORE	Perform JP5 service system operations
E4	CORE	Perform JP5 stripping system operations
E4	CORE	Sound JP5 fuel tanks
E7	CORE	Verify sounding report accuracy

### **QUALITY SURVEILLANCE**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E4	CORE	Conduct quality surveillance tests
E4	CORE	Determine fuel characteristics
E6	CORE	Manage fuels Quality Assurance (QA) personnel routine
E5	CORE	Monitor aviation fuel quality surveillance procedures

### **SHORE BASED REFUELING**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E5	CORE	Monitor shore facility fuel station pressure gauges
E4	CORE	Operate mobile refuelers
E4	CORE	Perform fuel farm operator functions
E4	CORE	Perform shore base hot refueling operations

### **TECHNICAL ADMINISTRATION**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E6	CORE	Maintain aviation fuels accountability records
E5	CORE	Perform fuel system administrative functions